

(19) World Intellectual Property Organisation
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number:
WO 2005/046834 A1

(51) International Patent Classification⁷: **B01D 15/08,**
B01J 20/26

(21) International Application Number: PCT/EP2004/011627

(22) International Filing Date:
15 October 2004 (15.10.2004)

(25) Filing Language: German

(26) Publication Language: German

(30) Priority Data:
103 51 798.7 6 November 2003 (06.11.2003) DE

(71) Applicant (*for all designated States except US*): **MERCK
PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293
Darmstadt (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CABRERA, Karin**
[DE/DE]; Mühlweg 14, 63303 Dreieich (DE). **KNOELL,
Peter** [DE/DE]; Konrad-Adenauer-Strasse 11, 64401 Gross-
Bieberau (DE).

(74) Common Representative: **MERCK PATENT GMBH;**
Frankfurter Strasse 250, 64293 Darmstadt (DE).

(81) Designated states (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES,
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated states (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR THE PRODUCTION OF MONOLITHIC MOULDINGS

(57) Abstract: The invention relates to a process for the production of monolithic mouldings, for example as sorbents for chromatography columns or capillaries, where the mouldings can remain directly in their gelling mould after production. This is achieved by the process according to the invention, in which the surface of the gelling mould is activated, before filling with the monomer sol, by surface etching, increasing the surface area or chemical modification of the surface.